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Date: November 26, 2001 Label No. EL 748964317 US

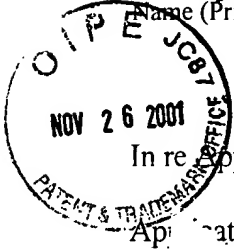
I hereby certify that, on the date indicated above, I deposited this paper with identified attachments and/or fee with the U.S. Postal Service and that it was addressed for delivery to the U.S. Patent and Trademark Office, P.O. Box 2327, Arlington, Virginia 22202 by "Express Mail Post Office to Addressee" service.

Cheryl S. Rollins

Cheryl S. Rollins

Name (Print)

Signature



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Woudenberg et al.

Application No.: 09/938,947

Group Art Unit: 1741

Filed: November 24, 2001

Examiner: Not Assigned

For: BUBBLE-FREE AND PRESSURE-GENERATING ELECTRODES
FOR ELECTROPHORETIC AND ELECTROOSMOTIC DEVICES

INFORMATION DISCLOSURE STATEMENT
PURSUANT TO 37 CFR §1.97

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DEC 3 2001
TC 1700

Assistant Commissioner for Patents
Washington, D.C. 20231

November 26, 2001

Sir:

The attention of the Patent and Trademark Office is hereby directed to the documents listed on the attached Forms PTO-1449.

The above information is presented so that the Patent and Trademark Office can, in the first instance, determine any materiality thereof to the claimed invention. See 37 CFR 1.104(a) and 1.106(b) concerning the PTO duty to consider and use any such information. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the documents cited in the attached Forms PTO-1449 be made of record therein and appear on the first page of any patent to issue therefrom.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art." If the Examiner applies any of the documents as prior art against any claim in

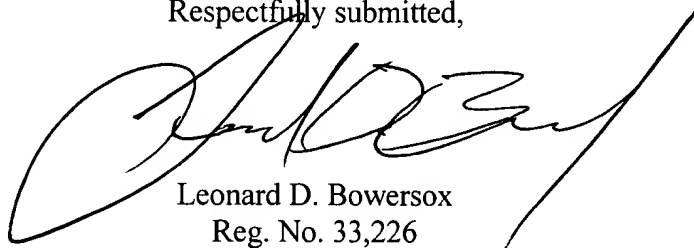
Information Disclosure Statement
U.S. Patent Application No. 09/938,947

this application and applicants determine that the cited documents do not constitute "prior art" under United States law, applicants reserve the right to present to the office the relevant facts and law regarding the appropriate status of such documents.

Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

It is believed that no fee is required to make this a complete and timely filing. However, if it is determined that a petition or fee is required, the Commissioner is hereby authorized to charge any fee associated with this statement to our Deposit Account No. 50-0925 and please consider this a petition.

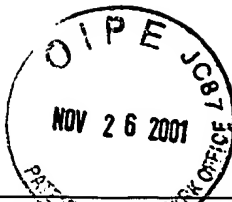
Respectfully submitted,

A large, stylized handwritten signature in black ink, appearing to read 'Leonard D. Bowersox', is written over the typed name and registration number.

Leonard D. Bowersox
Reg. No. 33,226

Atty. Docket No. 5010-001
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Enclosures: Form PTO-1449 (2 sheets), w/ forty (40) documents

Information Disclosure Statement
U.S. Patent Application No. 09/938,947



Page 1 of 2

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| Atty. Docket No.: 5010-001 | Application No. 09/938,947 |
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| Applicant: | WOUDENBERG <i>et al.</i> |
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| Filing Date: August 24, 2001 | Group Art Unit: 1741 |
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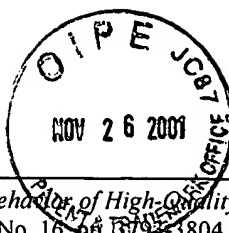
U.S. PATENT DOCUMENTS

| Examiner Initial* | Document Number | Date | Name | Class | Sub Class | Filing Date If Appropriate |
|-------------------|-----------------|----------|---------------------|-------|-----------|----------------------------|
| | 6,159,353 | 12/12/00 | West et al. | 204 | 601 | |
| | 6,129,828 | 10/10/00 | Sheldon, III et al. | 204 | 518 | |
| | 6,099,803 | 08/08/00 | Ackley et al. | 422 | 68.1 | |
| | 6,071,394 | 06/06/00 | Cheng et al. | 204 | 547 | |
| | 6,068,818 | 05/30/00 | Ackley et al. | 422 | 50 | |
| | 6,045,676 | 04/04/00 | Mathies et al. | 204 | 603 | |
| | 5,965,452 | 10/12/99 | Kovacs | 436 | 149 | |
| | 5,858,187 | 01/12/99 | Ramsey et al. | 204 | 452 | |
| | 5,833,826 | 11/10/98 | Nordman | 204 | 452 | |
| | 5,632,957 | 05/27/97 | Heller et al. | 422 | 68.1 | |
| | 5,605,662 | 02/25/97 | Heller et al. | 422 | 68.1 | |
| | 5,240,576 | 08/31/93 | Lauer et al. | 204 | 180.1 | |
| | 4,001,100 | 01/04/77 | Haydock | 204 | 180R | |

FOREIGN PATENT DOCUMENTS

| | Document Number | Date | Country | Class | Sub Class | Translation Yes or No |
|--|-----------------|----------|---------|-------|-----------|-----------------------|
| | WO 00/74850 A2 | 12/14/00 | WIPO | | | No |
| | WO 00/73780 A1 | 12/07/00 | WIPO | | | No |
| | WO 00/42424 | 07/20/00 | WIPO | | | No |
| | WO 99/50480 | 10/07/99 | WIPO | | | No |
| | WO 99/49319 | 09/30/99 | WIPO | | | No |
| | WO 99/29711 | 06/17/99 | WIPO | | | No |
| | WO 98/49549 | 11/05/98 | WIPO | | | No |
| | WO 98/48084 | 10/29/98 | WIPO | | | No |
| | WO 98/09161 | 03/05/98 | WIPO | | | No |

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)



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|--|---|
| | Granger et al., <i>Standard Electrochemical Behavior of High-Quality, Boron-Doped Polycrystalline Diamond Thin-Film Electrodes</i> , <u>Analytical Chemistry</u> , Vol. 72, No. 16, pp. 3795-3804 (August 15, 2000) |
| | Zak et al., <i>Diamond Optically Transparent Electrodes: Demonstration of Concept with Ferri/Ferrocyanide and Methyl Viologen</i> , <u>Analytical Chemistry</u> , Vol. 73, No. 5, pp. 908-914 (March 1, 2001) |
| | Xu et al., <i>Boron-Doped Diamond Thin-Film Electrodes</i> , <u>Analytical Chemistry</u> , Vol. 69, pp. 591A-597A (October 1, 1997) |
| | Washizu et al., <i>Molecular Dielectrophoresis of Biopolymers</i> , <u>IEEE Transactions on Industry Applications</u> , Vol. 30, No. 4, pp. 835-843 (July/August 1994) |
| | Carrilho, <i>DNA Sequencing by Capillary Array Electrophoresis and Microfabricated Array Systems</i> , <u>Electrophoresis</u> , Vol. 21, pp. 55-65 (2000) |
| | Bruin, <i>Recent Developments in Electrokinetically Driven Analysis on Microfabricated Devices</i> , <u>Electrophoresis</u> , Vol. 21, pp. 3931-3951 (2000) |
| | Rocklin et al., <i>A Microfabricated Fluidic Device for Performing Two-Dimensional Liquid-Phase Separations</i> , <u>Analytical Chemistry</u> , Vol. 72, No. 21, pp. 5244-5249 (November 1, 2000) |
| | Krishnamoorthy et al., <i>Analysis of Sample Injection and Band-Broadening in Capillary Electrophoresis Microchips, Modeling and Simulation of Microsystems</i> , Applied Computational Research Society, Vol. 3 (2000) |
| | Becker et al., <i>Polymer Microfabrication Methods for Microfluidic Analytical Applications</i> , <u>Electrophoresis</u> , Vol. 21, pp. 12-26 (2000) |
| | Dolnik et al., <i>Capillary Electrophoresis on Microchip</i> , <u>Electrophoresis</u> , Vol. 21, pp. 41-54 (2000) |
| | Huang et al., <i>Electric Manipulation of Bioparticles and Macromolecules on Microfabricated Electrodes</i> , <u>Analytical Chemistry</u> , Vol. 73, No. 7, pp. 1549-1559 (April 1, 2001) |
| | Liu et al., <i>Optimization of High-Speed DNA Sequencing on Microfabricated Capillary Electrophoresis Channels</i> , <u>Analytical Chemistry</u> , Vol. 71, No. 3, pp. 566-573 (February 1, 1999) |
| | McDonald et al., <i>Fabrication of Microfluidic Systems in Poly(dimethylsiloxane)</i> , <u>Electrophoresis</u> , Vol. 21, pp. 27-40 (2000) |
| | Morgan et al., <i>Separation of Submicron Bioparticles by Dielectrophoresis</i> , <u>Biophysical Journal</u> , Vol. 77, pp. 516-525 (July 1999) |
| | García Campaña et al., <i>Miniaturization of Capillary Electrophoresis Systems Using Micromachining Techniques</i> , <u>Journal of Microcolumn Separation</u> , Vol. 10, No. 4, pp. 339-355 (1998) |
| | Simpson et al., <i>A Transmission Imaging Spectrograph and Microfabricated Channel System for DNA Analysis</i> , <u>Electrophoresis</u> , Vol. 21, pp. 135-149 (2000) |
| | Alien Technology document or printout for 185 and 70 Micron NanoBlock circuits on top of a dime, and flexible PET substrate, one page (not dated) |
| | Nanogen document or printout for NanoChip Molecular Biology Workstation, one page, showing workstation with enlargement of 99-site test array (not dated) |

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| Examiner | | Date Considered | |
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*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.